

DEPARTMENT OF TRANSPORTATION**DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-002437**Date Inspected:** 30-Mar-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Changxing Dao, Shanghai**Quality Control Contact:** Don Walton**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coating Inspection**Bridge No:** 34-0006**Component:** OBG 9AE, Office, Sub-Assemblies (Tower)**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Sub-Assemblies

Tower spare splice plates angle iron and channel iron base metal surfaces were abrasive blasted. Components were inspected and determined to be non-compliant with required SSPC SP-10 condition. Channel ends exhibited dross and slag as well as fluting from thermal cutting process and sharp edges were apparent on numerous components also. Subsequent grinding operations were performed followed by re-abrasive blasting to an SSPC SP-10 condition and Interzinc 22 undercoat not applied due to non compliant ambient conditions within the blasting workshop. Chloride values were observed at 10µs/cm and Profile amplitude was 68-78µm.

Office

Report writing and organizing project documentation.

OBG 9AE

Internal base metal surfaces of the "U" Rib Stiffeners, Upper Chevron Assemblies, FL-2-1 Beams and Upper Corner Unit areas were abrasive blasted for VT verification of welds and base metal defects, grinding operations were performed and VT was performed and mapped accordingly by Caltrans QA CWI personnel. Subsequent re-abrasive blasting followed VT inspection and an SSPC SP-10 condition was observed and Interzinc 22 undercoat applied. Profile amplitude was 71-82µm.

Office

Reviewed international Protective Coatings Product Data Sheets for compatibility of all coatings approved and

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pending approval as requested by Caltrans Engineer Aaron Prchlik.

Note: All inspections were performed jointly with ABF & ZPMC QA/QC representatives and Caltrans QA Lumley when achievable.

Summary of Conversations:

No relevant conversations on this date.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang (858) 699-9549, who represents the Office of Structural Materials for your project.

Inspected By:	Lumley,James	Quality Assurance Inspector
Reviewed By:	Peterson,Art	QA Reviewer
